



Geon™ Vinyl Flexible B80MB

Flexible Polyvinyl Chloride

Key Characteristics

General			
Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Additive	• Biocide		
Features	• General Purpose	• Low to No Migration	• Medium Gloss
Uses	• General Purpose		
Forms	• Pellets		
Processing Method	• Extrusion	• Injection Molding	

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.35	1.35	ASTM D792
Molding Shrinkage - Flow	0.011 to 0.015 in/in	1.1 to 1.5 %	ASTM D955
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Strength ² (100% Strain)	1000 psi	6.89 MPa	ASTM D638
Tensile Strength ² (Break)	2200 psi	15.2 MPa	ASTM D638
Tensile Elongation ² (Break)	420 %	420 %	ASTM D638
Elastomers	Typical Value (English)	Typical Value (SI)	Test Method
Tear Strength ³	275 lbf/in	48.2 kN/m	ASTM D624
Compression Set (73°F (23°C), 22 hr)	55 %	55 %	ASTM D395
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Durometer Hardness			ASTM D2240
Shore A	80	80	
Shore A, 15 sec	72	72	
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Brittleness Temperature	-7.00 °F	-21.7 °C	ASTM D746

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Processing (Melt) Temp	375 to 395 °F	191 to 202 °C
Extrusion	Typical Value (English)	Typical Value (SI)
Melt Temperature	345 to 355 °F	174 to 179 °C

Notes

¹ Typical values are not to be construed as specifications.

² 20 in/min (510 mm/min)

³ Die C, 20 in/min (510 mm/min)

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